

⚠ Safety Warning

- This Product SHOULD NOT be used by children.
- If other people use this Product, should ensure that they have fully understood how to use this Product safely and have read and understood this Instruction Manual.
- Before using this Product, please remove all the outer packaging and untie the cable.
- DO NOT disassemble this Product without permission to avoid unknown hazard/s. If maintenance is required, please contact Customer Service for professional help.
- If this Product is violently hit, dropped or damaged in any other way, please DO NOT operate the Product and give it to qualified service personnel.
- DO NOT place this Product near heat sources, such as fire sources or heating furnaces.
- DO NOT use this Product near flammable gas or flammable liquid.
- DO NOT place this Product on flammable materials, such as carpet, interior decoration article, paper, cardboard, etc. When this Product is running, please keep away from the items that are easily affected by high temperature, such as blanket, pillow, bedding, etc.
- DO NOT let this Product come into contact with any liquid. DO NOT immerse this Product into water or wet it. DO NOT use this Product in the rain or wet environment.

⚠ Safety Warning

- This Product will generate heat during use and must be properly ventilated. Please ensure that there is at least 7.5 cm clearance around this Product.
- When using this Product, please strictly follow the operating ambient temperature of this Instruction Manual. If the temperature is too high, the battery may catch fire or even explode; If the temperature is too low, the performance of this Product will be seriously reduced and even cannot be used normally.
- If this Product has peculiar smell, abnormal heat or other conditions during use or storage, please shut down it immediately and place it in an open place for remote observation. After confirming the safety, please contact the Manufacturer or Dealer.
- DO NOT stack other heavy objects on this Product.
- DO NOT forcibly block the fan during use, or leave this Product in an unventilated or dusty space.
- DO NOT use this Product in the environment of strong static electricity or strong magnetic field.
- DO NOT use this Product at an altitude of more than 2000m.
- This product AC socket output AC high voltage, DO NOT insert metal conductor with your hand or your hand into AC power socket.
- DO NOT short circuit the output of this Product.

⚠ Safety Warning

- This Product is a power supply. Please match the corresponding model according to the power of the electrical equipment. It is forbidden to use this Product with overpower or overload.
- DO NOT operate this Product with damaged power line or plug. In case of damage, please replace the power line or plug immediately.
- DO NOT charge this Product with damaged charging cable.
- Please charge this Product with the equipped adapter.
- Please select the corresponding solar panel charging according to the electrical parameters specified in this Instruction Manual.
- To reduce the risk of electric shock, please shut down and unplug all plugs on this Product before any maintenance or cleaning.

1 Disclaimer

Before using this Product, please read the Instruction Manual of this Product and ensure that it can be used correctly after full understanding. After reading, please keep the Instruction Manual properly for future reference. If you do not operate this Product correctly, you may cause serious injury to yourself or others, or cause this Product and other property losses. Once you start using this Product, you will be deemed to have understood, recognized and accepted all the terms and contents of this Instruction Manual. The User promises to be responsible for his/her behavior and all consequences arising therefrom. The Manufacturer shall not bear all losses caused by the User's failure to use this Product according to the Instruction Manual.

The Manufacturer is entitled to the final interpretation of this Instruction Manual and all relevant documents of this Product under the condition of compliance with relevant laws and regulations.

This Instruction Manual is subject to update, revision or termination WITHOUT NOTICE.

2 General

The PES-600/PES-1200 is a portable energy storage product. The safety and reliability of this Product are fully guaranteed, thanks to the multi-level security mechanism designed solely. This Product has the features with multi-port AC output and DC output functions, which can meet the power supply requirements of mobile phones, laptops, cameras, televisions, various chargers, game consoles, video players, small electric tools and other equipment, and has built-in LED lighting.

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3 Packing List



Figure 1 Portable Energy Storage



Figure 2 Instruction Manual



Figure 3 Power Charger

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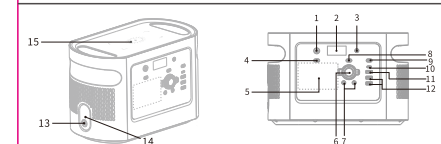
4 Specifications

		Table 1 Portable Energy Storage					
Basic Parameters	Name	PES-600			PES-1200		
	Specifications	US	JP	EU/UK	US	JP	EU/UK
Capacity	Capacity	448Wh,22.4V,20Ah			1008Wh,22.4V,45Ah		
	Dimension (LxDxH)	306*171*202(mm)			413*203*232(mm)		
	Net Weight	About 5.6kg			About 11kg		
Input	DC Charging	12V-30V-3.42A,65W max			12V-30V-7A,182W max		
	USB-C Charging	5V-3.0A/9V-3.0A/12V-3.0A/15V-3.0A/20V-5A,100W max					
AC Output	Rated Voltage	110V~60 Hz(Sine Wave)*2	100V~50 /60Hz (Sine Wave)*2	230V~50 /60Hz (Sine Wave)*1	110V~60 /60Hz (Sine Wave)*2	100V~50 /60Hz (Sine Wave)*2	230V~50 /60Hz (Sine Wave)*1
	Rated Power	Shared Power 600W max			Shared Power 1200W max		
DC Output	USB-C	5V-3A/9V-3A/12V-3A/15V-3A/20V-5A,100W max					
	USB-A1	5V-3.0A/9V-2.0A/12V-1.5A,18W max					
	USB-A2&A3	5V-2.4A,12W max					
	DC5525	13.6V-10A,136W max					
Battery Specification	On-board Charging	13.6V-10A,136W max					
	LED Lighting	2W					
	Wireless Charging	5V-2A/9V-1A,10W max					
Operational Environment	Charging Temperature	0°C-40°C (32°F-104°F)					
	Discharge Temperature	-10°C-40°C (14°F-104°F)					

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5 Product Structure Diagram

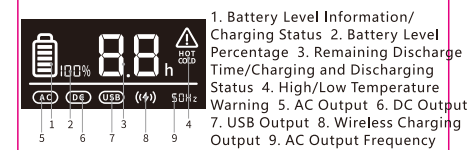
5.1 Product Appearance and Function Keys



- Power Switch
 - Display Screen
 - DC Charging Port
 - AC Power Switch
 - AC Power Socket
 - Charging Port
 - DC Output Port
 - DC Switch
 - USB Switch
 - USB-C
 - USB-A1
 - USB-A2&USB-A3
 - LED Switch
 - LED Lighting
 - Wireless Charging
- * The AC power socket, AC output voltage and frequency of this Product will change depending on the country or region. Please refer to the real object!

Figure 4

5.2 Display Screen



- Battery Level Information/Charging Status
- Battery Level Percentage
- Remaining Discharge Time/Charging and Discharging Status
- High/Low Temperature Warning
- AC Output
- DC Output
- USB Output
- Wireless Charging Output
- AC Output Frequency

Figure 5

6 How to Operate

- ### 6.1 Charging and Discharging
- In the OFF state, please plug the power charger into the DC charging port, and all the symbols on the display will light up. After the self-test is normal, enter the charging mode, and the display will show CH and the battery level percentage.
 - You can plug the USB-C charging cable into the USB-C port for charging.
 - Both DC charging port and USB-C port can be charged simultaneously.
 - When fully charged, the battery level will display 100%, and it will automatically shut down after 30 seconds. Then pull out the power charger and USB-C charging cable.
 - When discharging, the display screen will show the discharge time and the battery level percentage, and automatically adjust the discharge time according to the output power. It is recommended to charge immediately after purchase.
- *When the battery level is lower than 20%, it needs to be charged to maintain the best performance and prolong the endurance life.
- *Do not charge this Product with its output end.
- *Do not completely discharge the internal battery level to avoid affecting the battery life.
- *When the high/low temperature protection warning symbol appears on the display, please stop using and shut down immediately.
- ### 6.2 Switch "ON" and "OFF"
- Short-press the power switch to turn ON/OFF, and display ON/OFF on the display screen.
 - After power-on, the display screen will shut down automatically without any output display for 30 seconds.
 - Turning OFF the power switch will turn off all functions.
- ### 6.3 AC Output
- After starting up, please long press the AC switch for 3 seconds to turn on the AC output and display the AC on the

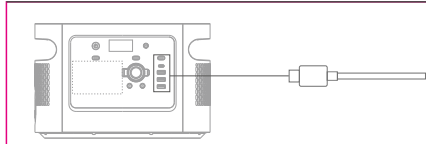
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- display screen.
- To connect the AC electrical equipment in the off status to the AC socket, and then turn it on for use.
 - After use, please long press the AC switch for 3 seconds to turn off the AC output and plug out the electrical equipment plug.
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- Figure 6
- *If the battery level is less than 5%, the AC output will be turned off.
- *When the AC no-load output exceeds 6 hours, the AC output will be automatically turned off.
- *Short press the AC switch for 3 times continuously to switch the frequency of 50Hz/60Hz.
- *When the AC output of this Product is not used, please turn off the AC output to save energy.
- *Different countries or regions have different AC voltage standards and socket specifications. Before use, please make sure that this Product conforms to the specifications of the electrical equipment.
- *Do not connect other AC power supply to the AC socket of this Product.
- *Do not plug the power charger into the AC socket of this Product to charge. When the AC output is short circuited or the load electrical power exceeds the AC output power of this

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- Product, the protection function of this Product will be triggered. Please eliminate the short circuit source first or plug out the electrical equipment plug, and then switch ON and OFF again to restore the AC output function.
- ### 6.4 DC Output
- After starting up, short press the DC switch to turn on DC output and display DC on the display screen.
 - To connect the DC electrical equipment in the shutdown status to the DC output port, and then turn it on for use.
 - To connect the DC electric equipment in the shutdown status to the on-board charging output port, and then start it for use.
 - After use, short press the DC switch to turn off the DC output and plug out the electrical equipment.
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- Figure 7
- *When the DC no-load output exceeds 6 hours, the DC output will be automatically turned off.
- ### 6.5 USB Output
- After starting up, short press the USB switch to turn on the USB output, and display USB on the display screen.
 - Plug the USB-A cable into the USB-A port and start using it.
 - Plug the USB-C cable into the USB-C port and start using it.
 - After use, short press the USB switch, turn off the USB output, and plug out the USB cable.

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*When the USB no-load output exceeds 6 hours, the USB output will be automatically turned off.

Figure 8

6.6 Wireless Charging

1. After starting up, long press the USB switch to turn on the wireless charging, and display on the display screen.
2. To place the wireless charging device at the top identification position for wireless charging. For different charging devices, the charging position may need to be adjusted appropriately.
3. After use, long press the USB switch to turn off wireless charging.



Figure 9

*When the wireless charging no-load output exceeds 6 hours, the wireless charging will be automatically turned off.

6.7 LED Lighting

1. Short press the LED switch to turn on the LED lighting.

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2. Short press the LED switch to switch the LED lighting modes in order: Weak, Medium, Strong, SOS, Warning Light Burst, and OFF.
3. Long press the LED switch to turn off the LED lighting directly.

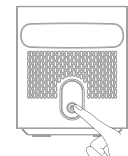


Figure 10

6.8 Solar Charging (Optional)

1. To place the solar charging panel in the direct sunlight. (TIP: Do not expose this Product to direct sunlight or damp environment)
2. To connect the output round plug of the solar charging panel to the DC charging port, and begin the charging.
3. After charging, please plug out the solar charging panel from the DC charging port.

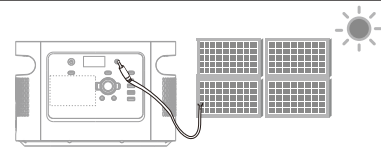


Figure 11

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6.9 On-board Charging (Optional)

1. To connect the round plug of the on-board charging cable to the DC charging port, and then insert the on-board charging plug into the on-board 12V charging port to start charging.
2. After charging, please plug out the on-board charging plug first, and then pull out the round charging plug from the DC charging port.

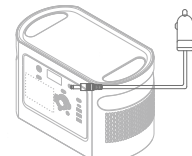


Figure 12

*DO NOT plug the on-board charger plug into the on-board charging port of this Product to charge.

7 Troubleshooting

1. In case, there is no response when this Product is powered on, and DC, USB, AC and LED lighting are not output. Troubleshooting Method as follows:
First, please plug out all the electrical equipment plugs, then charge this Product for 5-10 minutes, and restart it. Please ensure that this Product is currently used within the normal temperature range.
2. In case, this Product can be powered on, but the corresponding output interface has no output (DC, USB, AC). Troubleshooting Methods as follows:
Please check whether the battery level of this Product is too low. If so, please charge it in time.
Please check whether the output power of the electrical equipment is higher than that of this Product, resulting in

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protection; Plug out the electrical equipment plug, and restart it.
Please confirm whether the output of this Product meets the power supply requirements (Voltage, frequency) of electrical equipment.
Please check whether there is a short-circuit between the output port and the electrical equipment, and restart it after plug out the electrical equipment.

3. In case, unexpected shutdown when this Product is in use. Troubleshooting Methods as follows:
The startup of the internal protection system leads to the shutdown of this Product. The events that may cause the startup of the protection system include overcharge, over-discharge, high temperature, low temperature, over-current, and short-circuit. In order to quickly solve the problem, please plug out all electrical equipment plugs, keep this Product temperature within the normal temperature range, and charge this Product for 5-10 minutes. At the same time, check whether the electrical equipment is faulty. Then restart it.

4. In case, this Product cannot be charged. Troubleshooting Methods as follows:
Please confirm whether the charging electrical parameters are within the charging range of this Product. Check whether the temperature protection has been started due to high or low temperature.

8 Maintenance

It is recommended to use or store this Product in an environment of 20 °C to 30 °C, away from water, heat and other metal objects.
For safety, do not store this Product in an environment higher than 45 °C or lower than -20 °C.
If the long-term storage is required, please charge and discharge this Product once every 3 months (That is, discharge this Product to 30%, then charge it to 60%).

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If the battery level of this Product is less than 1% after use, please charge it to 60% before storage. If the battery level is left idle for a long time in case of serious shortage of battery level, it will cause irreversible damage to the battery chip and shorten the endurance life of this Product.

9 After-sales Service Description

Dear Users, thank you for using our Product. We will provide you with after-sales service no less than the national "Three Guarantees" Warranty Policy. The service contents are as follows: Within 7 days from the date of purchase, you can ask for RETURN due to quality problems; And within 30 days, you can ask for EXCHANGE due to quality problems. During the warranty period, you can enjoy free warranty service, and the warranty period is 12 months. In order to protect your legitimate rights and interests, please pay attention to the following:

- At the time of purchase, the sales company must issue a valid Purchase Voucher.
- The Warranty Card and Purchase Voucher shall be properly kept by the User.
- If this Product fails due to non-human reasons, the User can go to the Customer Service Center for free maintenance within the warranty period with the Warranty Card and Purchase Voucher.

In the process of use, Users who meet one of the following conditions are not covered by the warranty:

1. The warranty period is expired.
2. Damage caused by the Product falling or water-logging during use.
3. Failure caused by unauthorized disassembly, modification, etc.
4. Faults caused by the use environment not meeting this Product requirements.
5. Failure or damage caused by irresistible factors (Such as fire, earthquake, lightning strike, etc.).

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6. Damage caused by failure to use according to the requirements in the Instruction Manual.
7. The Warranty Card or Purchase Voucher does not match this Product serial number, or is altered.
8. The SN bar code of this Product is torn or damaged, and it is illegible.

10 General Questions and Answers

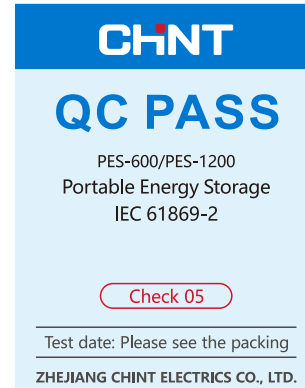
- Q: How long can this Product be stored?
A: It can be stored for 6 months when fully charged. It is recommended to charge it every three months.
- Q: How long does it take for this Product to be fully charged?
A: 1. For PES-600 Charging:
In case, the PES-600 charges with the equipped power charger +100W USB-C from 0% to 100% simultaneously for about 3 hours;
In case, the PES-600 charges just with the equipped adapter from 0% to 100% for about 8 hours;
In case, the PES-600 charges just with 100W USB-C from 0% to 100% for about 5 hours.
2. For PES-1200 Charging:
In case, the PES-1200 charges with equipped power charger +100W USB-C from 0% to 100% simultaneously for about 4 hours;
In case, the PES-1200 charges just with the equipped adapter from 0% to 100% for about 7 hours;
In case, the PES-1200 charges just with the 100W USB-C from 0% to 100% for about 12 hours.
- Q: Can this Product be used while charging?
A: This Product supports charging while using. When the output power is greater than the charging power, the battery level will be reduced. When the battery level is reduced to a low status, the output will be turned off.
- Q: Does this Product have temperature protection?
A: When the internal temperature is higher than 55 °C during charging, it will automatically start temperature protection.

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When the internal temperature is higher than 60 °C during discharging, it will automatically start temperature protection.

- Q: Will this Product be OFF automatically?
A: When this Product is used without load, the corresponding output function will be turned off after 6 hours; It will be OFF automatically after all output functions are turned off.
- Q: Can the this Product be used to start the car?
A: This Product cannot be directly used to start the car. However, the car starting battery can be charged with the optional charging cable. Generally, the car can be started after 5-10 minutes of charging.

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Standard: IEC 61869-2:2012